

PCT

i	OCT 2003
WIPO	PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 57402WO003		FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No. PCT/US02/38020		International filing date (c 27.11.2002	day/month/year)	Priority date (day/month/year) 21.01.2002		
	nationa M15/2		nt Classification (IPC) or b	l oth national classification a	nd IPC	
Applio 3M I		VATI	VE PROPERTIES C	OMPANY		
1.	This Auth	intern ority a	ational preliminary exa and is transmitted to the	mination report has been applicant according to	n prepared by thi Article 36.	is International Preliminary Examining
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.					
		hoor	amended and are the	nied by ANNEXES, i.e. basis for this report and n 607 of the Administrati	<i>l</i> or sheets contai	scription, claims and/or drawings which have ning rectifications made before this Authority under the PCT).
	These annexes consist of a total of sheets.					
3.	This	renor	t contains indications re	elating to the following it	ems:	
O.						
	1		Basis of the opinion			
	11 111		Priority	oninion with regard to n	ovelty inventive	step and industrial applicability
	IV		Lack of unity of invent		overty, inventive	otop and madema, appressons,
	V	⊠	Reasoned statement		th regard to nove	elty, inventive step or industrial applicability;
	VI		Certain documents ci	ted		•
	VII		Certain defects in the	international application	1	
	VIII		Certain observations	on the international appl	ication	
Date	of sub	missio	on of the demand		Date of completi	on of this report
06.08.2003		28.10.2003				
Name and mailing address of the international			nal	Authorized Office	er	
preliminary examining authority: European Patent Office - P.B. 5818 Patentlaan 2 NI-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016			s. 5818 Patentlaan 2 Bas	Fiocco, M	-31 70 340-4538	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US02/38020

l.	Basis	of the	report
----	-------	--------	--------

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages					
	1-28	i .	as originally filed				
	Clai	ms, Numbers					
	1-12	2	as originally filed				
2.	With lang	regard to the langua uage in which the inte	ge, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.				
	The	se elements were ava	ilable or furnished to this Authority in the following language: , which is:				
		the language of a trai	nslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of publication of the international application (under Rule 48.3(b)).					
		the language of a training Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under 8).				
 With regard to any nucleotide and/or amino acid sequence disclosed in the international application, international preliminary examination was carried out on the basis of the sequence listing: 							
		contained in the inter	national application in written form.				
		filed together with the	e international application in computer readable form.				
		furnished subsequen	quently to this Authority in written form.				
		furnished subsequen	tly to this Authority in computer readable form.				
		The statement that the in the international ap	ne subsequently furnished written sequence listing does not go beyond the disclosure oplication as filed has been furnished.				
		The statement that the listing has been furni	ne information recorded in computer readable form is identical to the written sequence shed.				
4.	The	amendments have re	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5.		This report has been been considered to g	established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).				
		(Any replacement sh	neet containing such amendments must be referred to under item 1 and annexed to this				
6.	Ado	itional observations, i	f necessary:				

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/US02/38020

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims No:

Inventive step (IS)

Claims Yes: Claims

1-12

1-12

No:

Claims

Industrial applicability (IA)

Yes: Claims

1-12

No: Claims

2. Citations and explanations

see separate sheet

INTERNATIONAL PRELIMINARY InterEXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document:

D1: D1: WO 94 24179 A (DU PONT) 27 October 1994 (1994-10-27)

1) CLAIM 1

Document **D1**, which is considered to represent the most relevant state of the art, discloses (cf. **page 2**, **line 1 - page 3**, **line 4** and **examples**) a method of treating a fabric from which the subject-matter of claim 1 differs in that:

- a) the C3-C4 perfluoroalkyl(meth)acrylates account for 10 to 97 mole% of the copolymer. It is not possible to calculate accurately this proportion in D1, since a proportion is only given of C3-<u>C6</u> perfluoroalkyl(meth)acrylates without distinction; and
- b) the sum of (a), (b) and (c) sums up to 100 % (in D1 a mixture of perfluoroalkyl(meth)acrylates is used).

The subject-matter of claim 1 is therefore novel (Article 33(2) PCT).

The technical effect obtained from the above mentioned features a) and b) is that the composition is more biodegradable, while providing comparable water and oil repellency (cf. present application, page 3, line 29 - page 4, line 19).

The problem to be solved by the present invention may therefore be regarded as to provide water and oil repellency to textiles or nonwovens with an environmentally friendlier composition.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons: none of the cited documents discloses, nor fairly suggests, the use of copolymers of short-chain perfluoroalkyl(meth)acrylates with vinyl(idene) chloride for the treatment of fabrics, nor the problem defined above is addressed.

- 2) Claims 2-11 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.
- 3) <u>Claim 12</u> is characterized by the subject-matter of claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.